

# Representation theory of algebraic groups and related topics

Organizer : Takeyoshi Kogiso, Masatoshi Iida, Haruko Nishi (Josai University)

Date : September 15, 16, 2012

Place :first day:1-302Kioichou Campus of Josai University, second day:6-604 Toshi-Center  
Hotel

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September 15

9:30–10:10: Haruko Nishi (Josai University)

A pseudo-metric on moduli space of hyperelliptic curves

10:20–11:00: Masatoshi Iida (Josai University)

Restriction of the system of differential equations satisfied by the matrix coefficient of  
principal representation of  $Sp(2, \mathbb{R})$

11:10–12:10: Kazunari Sugiyama (Chiba Insutitute of technology)

$L$ -functions associated with boundary values of automorphic forms on  $SL(2, \mathbb{R})$

13:20–14:20: Hideyuki Ishi (Nagoya University)

Fourier transform of relatively invariant functions on a homogeneous convex domain

14:35–15:35: Fumihiko Sato (Rikkyo University)

Local functional equation associated with decomposable graphs

15:50–16:50: Yumiko Hironaka (Waseda University)

$p$ -adic unitary hermitian matrices and spherical functions

September 16)

10:00–11:00: Takashi Taniguchi (Kobe University)

Orbital  $L$ -functions for the space of binary cubic forms and their applications

11:15–12:15: Toshio Oshima (University of Tokyo)

An elementary divisor theorem for the ring of ordinary differential operators

13:30–14:30 :Kazuki Hiroe (Kyoto Univerisity)

Linear ordinary differential equations on the Riemann sphere and representations of  
quivers

14:45–15:45: Keiju Souno (University of Tokyo)

Moments of the Epstein zeta functions

16:00–16:50: Takeyoshi Kogiso (Josai University)

Quadratic maps to PV's and local functional equations